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Saint Louis Army Ammunition Plant Early Transfer Brief March 3, 2004 (10:00 Harry S. Truman Bldg. Room 400)

- I. WELCOME/INTRODUCTIONS Ruben Zamarripa
- II. OPENING REMARKS

Stephen Mahfood - Department of Natural Resources Major Roberson - The Army John Robinson - General Services Administration Otis Williams - St. Louis Development Corporation Tom Lorenz - EPA Region VII

- III. ROLE OF GENERAL SERVICES ADMINISTRATION John Robinson/GSA
- IV. ENVIRONMENTAL INVESTIGATION RESULTS AND SITE RISKS Jerry Preston/Army
- V. THE EARLY TRANSFER OF THE ST. LOUIS ARMY AMMUNITION PLANT John German/Army
- VI. OTHER PERSPECTIVES (Saint Louis, EPA...)
- VII. QUESTIONS...
- VIII. NEXT STEPS
- IX. CLOSING REMARKS

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SUPERFUND RECORDS

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- II. OPENING REMARKS

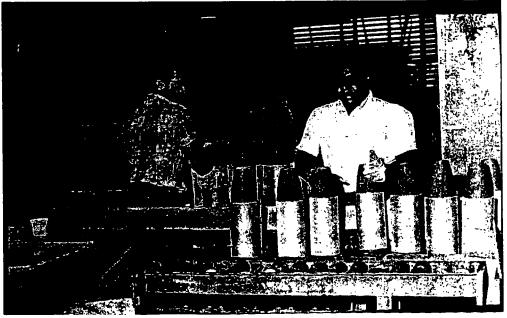
Stephen Mahfood - Department of Natural Resources
Major Roberson - The Army
John Robinson - General Services Administration
Otis Williams - St. Louis Development Corporation
Tom Lorenz - EPA Region VII - Served in a Support role

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ST. LOUIS ARMY AMMUNITION PLANT

REMOVAL ACTIONS
ENVIRONMENTAL BASELINE SURVEYS
BASELINE HUMAN HEALTH RISK ASSESSMENT







looking East during operations

SLAAP HISTORICAL REVIEW

- 1941 St. Louis Ordnance Plant (SLOP) constructed to manufacture 0.30 caliber munitions
- 1944 SLAAP was a designated area of SLOP to manufacture 105
 Howitzer shells (Contract General Motors, Chevrolet Motor
 Division until 1972)
- 1946 After WW II, SLAAP was placed on stand-by status
- 1951 1956 SLAAP reactivated for Korean War
- 1956 Place on stand-by status
- 1966 1969 SLAAP reactivated for Southeast Asian Crisis
- 1969 Place on stand-by status
- 1972 SLAAP was place in layaway status
- 1984 SLAAP admin buildings renovated for AVSCOM (1986-1990)
- 1989 Production equipment was removed
- 1998 SLAAP was declared excess by the Army

OBJECTIVES TECHNICAL PRESENTAION

- Removal Actions
- Investigation Efforts
- Environmental Risk Analysis

Document Summary

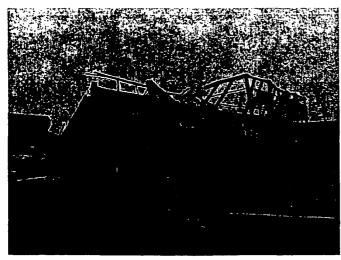
- Removal Actions
 - Demolition of Bldg 3 and Soil Removal
 - Notice of Noncompliance (NON) for PCBs in 1991
 - PCBs Investigation
 - Removal Actions
- Investigations
 - Environmental Baseline Survey (EBS) Dec. '00
 - Investigation Activities
 - Areas for Further Investigation
 - Site Specific EBS (SSEBS)
 - Work Plan developed from EBS information
 - Field Investigations Areas and Sample Synopsis
 - Regulatory comments received and responses generated
 - Final issued 25 Feb 04
- Risk Analysis
 - Baseline Human Health Risk Assessment (BHHRA)
 - Developed risk evaluation of contamination to humans
 - "Hotspots" were identified around the site
 - Regulatory comments received and responses generated
 - Final to be issued early Mar 04

Remedial Activity for Building 3

- NON for PCBs issued in Feb 91 under TSCA
- PCBs detected in building concrete and soil beneath the building foundation
- Best alternative for NON removal and facilitate Transfer -Removal of Bldg 3 and foundation soil
- \$5M Funding by Army with Congressional mandate
- Demolition completed Jan 03; Site restoration completed May 03
- NON lifted in Dec 02 12/19/02

Building 3 Remedial Action

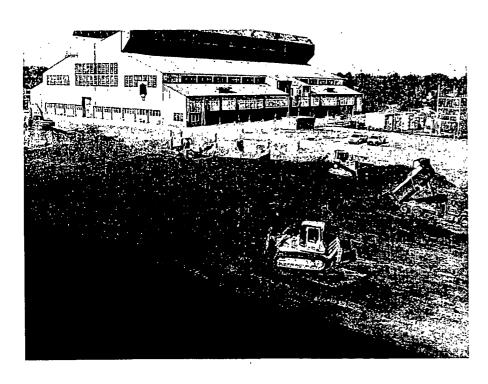


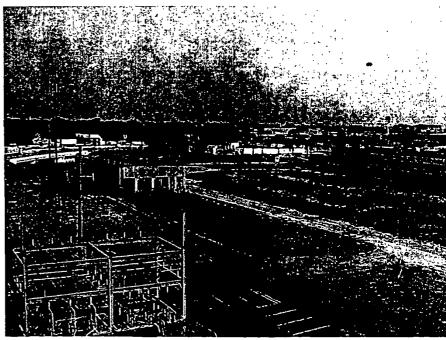




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Building 3 Remedial Action





Review of Comprehensive EBS

(Investigation Activities)

- Historical Records Search
- Asbestos Containing Material (ACM) survey
- Investigation Media
 - Soil Borings
 - GW Monitoring Wells
 - Equipment Wipes
 - Sediment
 - Surface Soil
 - Wastewater
 - Sumps
 - Concrete Flooring



Comprehensive EBS Evaluation

(Areas Requiring Further Investigation)

Site Wide

- Sewer System
- UST areas
- Transformers
- Metal storage areas
- Sumps
- Groundwater

Buildings

-1, 2, 3, 4, 5 & 6



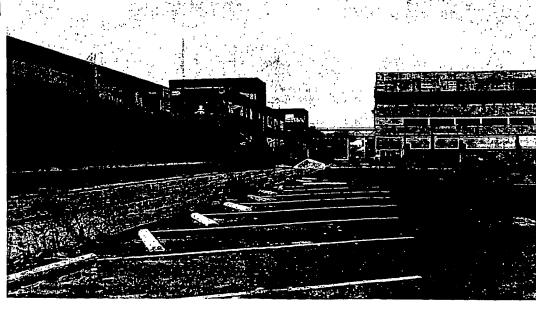
SSEBS Work Plan

- Objectives for the Data Collected
- Mechanism to Select Chemicals of Potential Concern (COPCs)
 - Screening Levels (SLs) established for result comparison
 - Concentration > SL = risk evaluation process
- Data Quality and Usability
 - QA/QC Procedures
 - Data Requirements for the Human Health Risk Assessment
- Reporting Requirements
- Schedule

SSEBS Field Investigation Areas

Initial Field Work August/September 2002 Contingency Sampling Program April/May 2003

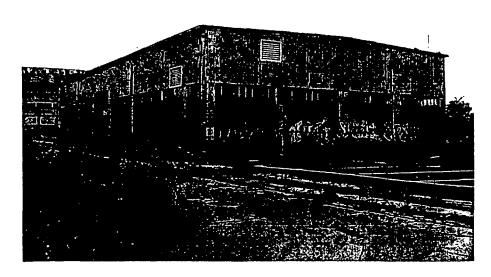
- Regional Background Soils for Metals & PAHs
- Soil near Buildings 1, 2, 4, 5, 6, 7, [8], & [10] (Soils under Buildings 3 removed under PCB Remediation Program)
- NE Parking Area
- Railroads
- Roadways
- Sewer System
- Groundwater

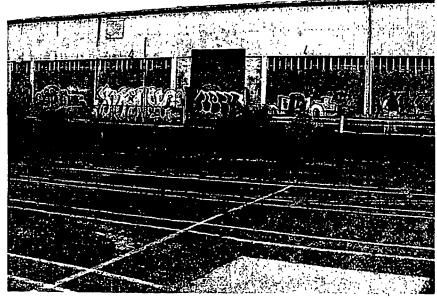


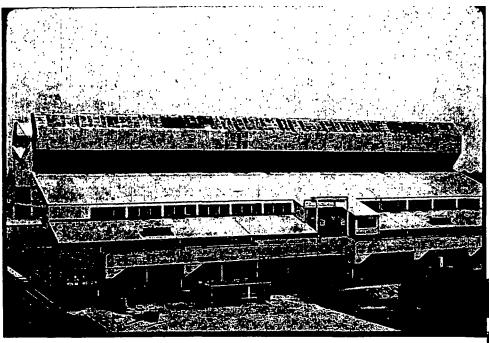
SSEBS Field Investigation Activities

Synopsis of Samples Collected

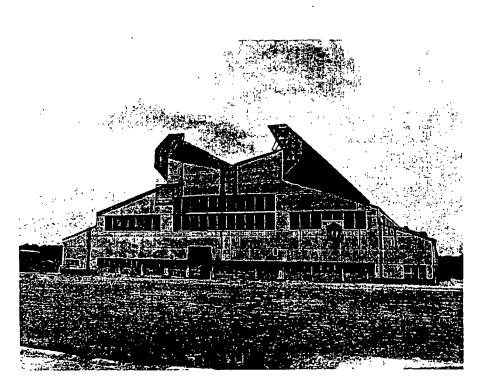
- Soil samples from boring locations (296)
- Regional Background soil samples from off-site locations (10)
- Ground Water Samples
 - newly installed monitoring wells (4)
 - existing monitoring wells (9)
- Asbestos samples from Refractory Bricks in Bldg 2 (20)
- Concrete floor samples from Buildings 1, 2 & 4 (18)
- Mastic samples from flooring in Buildings 5 & 6 (6)
- Sediment samples (6 from site sewers, 2 from pipe tunnels)
- Surface Wipe samples (11)
- Wastewater samples from site sewers (10)



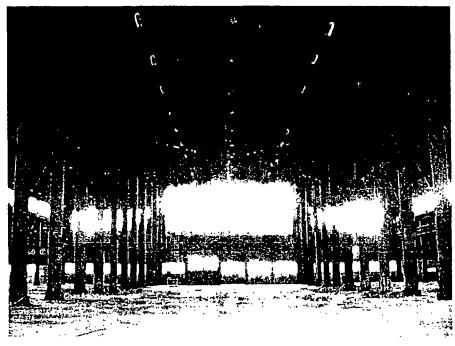








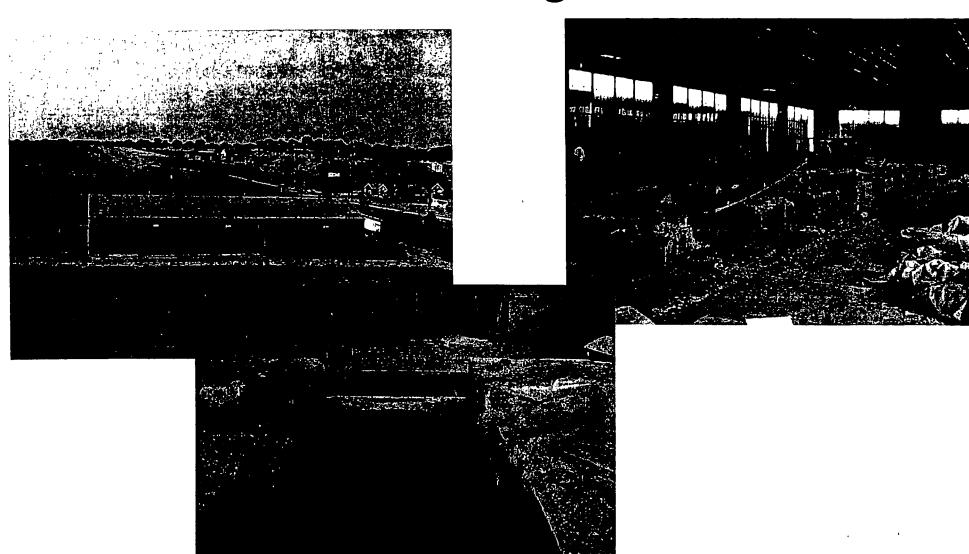
South side of Building 2 facing north



Center area of Building 2 facing north

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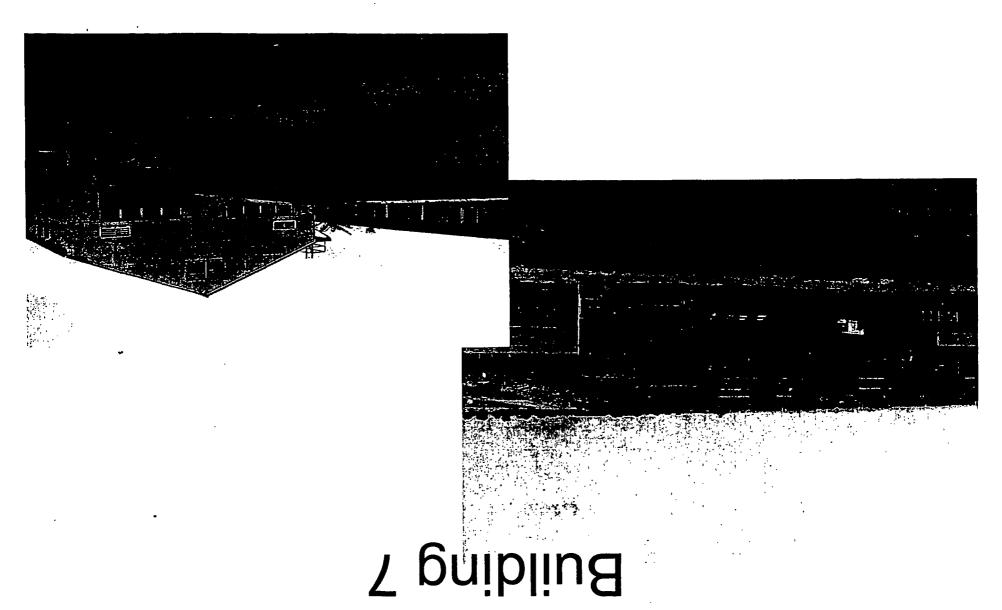


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Building 6

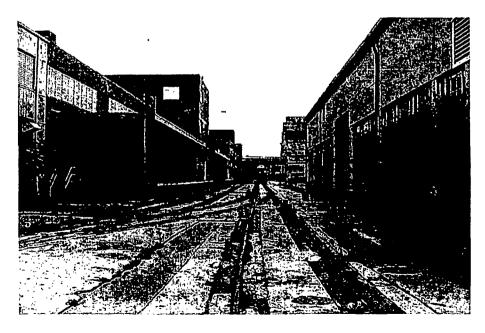


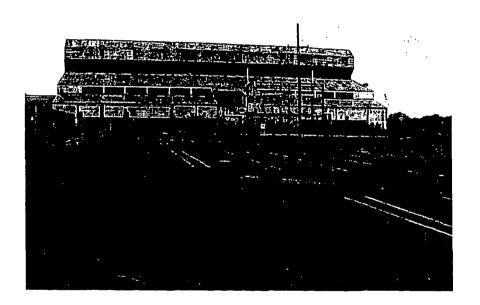
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Additional Risk Assessment Areas

Northeast Parking Area

Railroads

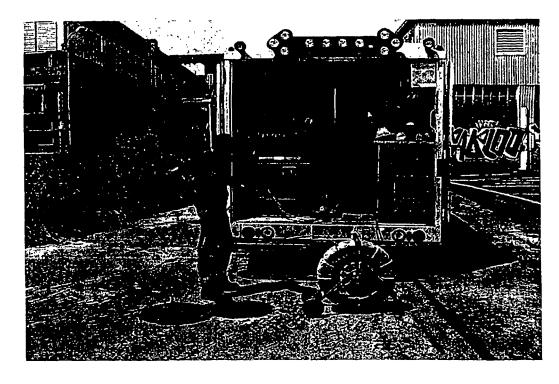




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Sewer System Survey



Sediment and Wastewater samples

SSEBS Report

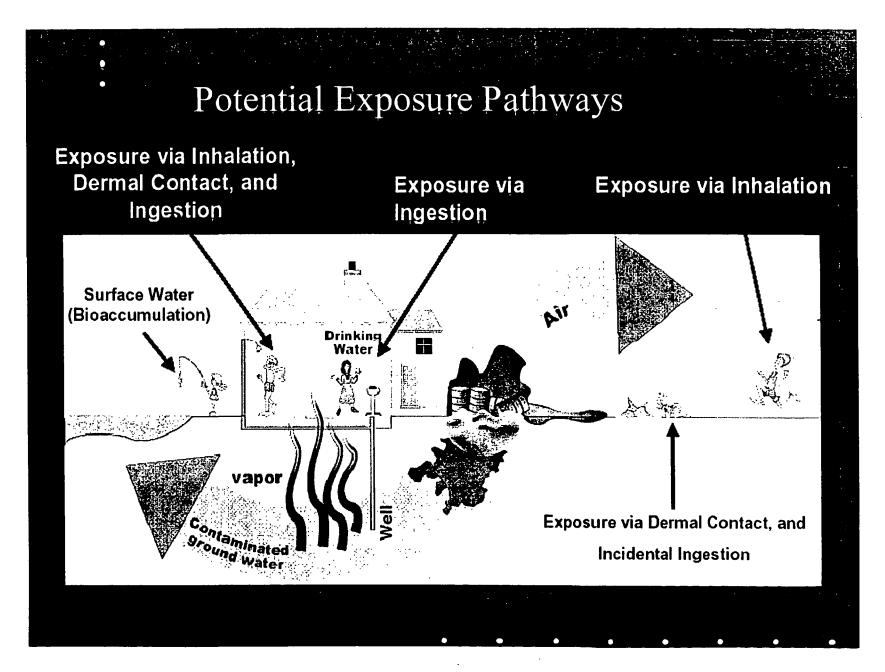
Summary and Conclusions

- Contamination in selected areas will require additional investigation to fully define the nature and extent.
- No water bearing units were apparent during installation of the four new monitoring wells.
- Low permeability clay soils exist at the site.
- Groundwater has not been fully characterized, but appears to have perched water on clay lenses.
- Groundwater detections > SLs in 13 MWs (As and PAHs)
- Pesticide residues were found in soil under Bldg 5.
- The concrete floor and soil of Bldg 2 contain PCBs.
- Investigation areas addressed in the SSEBS are discussed in the Baseline HHRA.
- Other small areas of contamination "hotspots" were identified and evaluated during the risk analysis.

3/2/2004

Baseline Human Health Risk Assessment

- Evaluation for Commercial or Industrial future use of the site
- Other scenarios are also evaluated (visitor, trespasser, construction worker, resident)
- Results of the HHRA were used to support
 - A "No Further Action" determination
 - Deed restriction
 - Specify site cleanup areas
 - Combination of cleanup and restriction



3/2/2004

Baseline HHRA

- Soil is primary medium of concern
 - Groundwater not used in the area and exposure potential is limited
 - Buildings are evaluated separately using existing standards
- Areas of Concern (AOCs)
 - Individual building footprints
 - Areas surrounding buildings
 - Overall site evaluation
- Chemicals of Potential Concern (COPCs)
 - PCBs and PAHs appear to be the primary COPCs, although other chemicals (pesticides, metals, dioxins, etc.) are in some AOCs
 - Pesticide is a COPC in and around Building 5

Baseline HHRA Soil Results

- Soils in most areas do not pose a risk
- Soils under Building 2 could pose a non-cancer hazard if the building is removed and the property used for a residence with children; not a hazard for any other scenario.
 PCB is the chemical of concern.
- Soils under Building 5 could pose unacceptable cancer risks and non-cancer hazards for residents or commercial/industrial tenants. Risks were primarily the result of a DDT hotspot, hazards were due to DDT and PCB. Lead slightly exceeds the residential standard, but is present within the background range for St Louis.
- The hotspot evaluation and site-wide evaluation support the individual building evaluations

Baseline HHRA Groundwater Results

- Although groundwater is not used as a drinking water source, several VOCs were found in one shallow groundwater monitoring well
- Potentially exposed populations include trench workers (direct contact, inhalation) or individuals in buildings (inhalation)
- Cancer risks and non-cancer hazards are very low for both populations

Baseline HHRA Buildings

- Asbestos and lead are likely to be present above regulatory standards in many buildings
- PCBs are likely to be present above regulatory standards in a few buildings

Baseline HHRA Conclusions

- Groundwater does not pose a risk for the intended reuse
- Soils pose limited risks that can be readily addressed via several different remedial options
- Prior to occupation, buildings should be thoroughly surveyed for contamination that could affect the proposed use of the buildings
- Given the caveats listed above, the HHRA supports the proposed reuse of the property for industrial/commercial purposes

The Early Transfer of the St. Louis Army Ammunition Plant

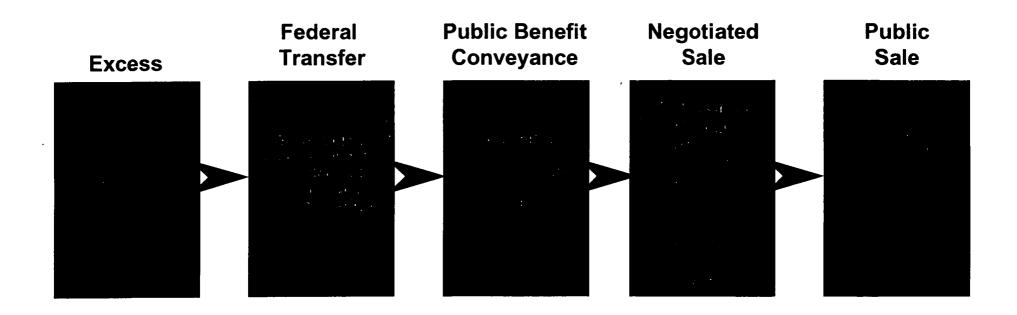
John M. German
HQ U.S. Army Materiel Command

AGENDA

- The Early Transfer Process
- Key Documents
- Where We Are
- What's Left to Be Done

- Key Players in the SLAAP Early Transfer
 - The Department of the Army
 - General Services Administration
 - St. Louis Development Corporation
 - Missouri Department of Natural Resources
 - Missouri Attorney General's Office

GSA's Disposal Process



Homeless
Airports
Corrections
Education
Highway
Historic Monument
Parks & Recreation
Ports
Housing
Emergency Management
Public Health
Wildlife Conservation

- Statutory Authority
 - CERCLA 120(h)(3)
 - 1997 Amendments 120(h)(3)(C)
- Requirements
 - Governor must approve
 - Property is suitable for intended use
 - Response actions are assured
 - Warranty will be delivered
 - Federal Responsibilities

- Property is suitable for its intended use
 - Use is consistent with the protection of human health and the environment
 - The deed transferring the property contains response action assurances
 - Public notification
 - Deferral will not delay remediation

- Response Action Assurances
 - Restrictions on the use of the property are in place to protect HHE
 - Restrictions in place to ensure remediation will not be disrupted
 - A schedule approved by the regulators for investigation and remediation
 - Financial assurances

- Restrictions to protect HHE include:
 - Prohibition against residential land use
 - Prohibition on installing wells and access to GW
 - Prohibition against ground disturbing activities without **MDNR** approval
- Restrictions in place to ensure remediation will not be disrupted
 - **Access rights**
 - Non-interference clause
- · Consent Agreement of the title to the property unless they have a developer to transfer to.

 Financial assurances

 Army comment

 - - Army commitment to seek funding
 - **Environmental insurance for the developer**

KEY DOCUMENTS

- Covenant Deferral Package
 - FOSET
 - Covenant Deferral Request
 - Public Comments
 - Offer to Purchase
 - Request for Proposals
 - Consent Agreement
 - Deferred Covenant Quitclaim Deed

KEY DOCUMENTS

FOSET

- Site description and history
- Extent of known contamination
 - Notice of HS stored, released or disposed
 - Notice of petroleum products stored/released/disposed
- Risk presented by known contamination
- Mechanisms in place to meet the conditions necessary to transfer early
- Declaration by the Army that the site is suitable for early transfer for its intended purpose

KEY DOCUMENTS

- CDR Package
 - FOSET
 - Covenant Deferral Request
 - Public Comments
 - > Comments received
 - Notice
 - > Army Responses
 - Offer to Purchase
 - Request for Proposals
 - Consent Agreement
 - Deferred Covenant Quitclaim Deed
 - Approval of Deferral Request

WHERE WE ARE IN THE PROCESS as of 03/04/04

- FOSET completed but not signed by Ray Fatz (DOA)
- Public Comments completed Jone
- Offer to Purchase draft completed pending final review - wat St Louis
- Request for Proposals pending* Release at end of Month

 Deed draft completed pending final review

 Consent Agreement pending Must be between DOA + throughere (St. louis)

 Ninch Pin Consent Agreement pending will a developer is identified.

 - Approval of Deferral Request pending
 - Transfer of Title September 04 (projected)
 - Issuance of Covenant upon site cleanup

QUESTIONS?

Bob Holden, Governor • Stephen M. Mahfood, Director

STATE OF MISSOURI DEPARTMENT OF NATURAL RESOURCES

www.dnr.state.mo.us

(JEX)(EX)(30)

December 31, 2003

JAN 05 2004

MOIZIVAD CANIFAREATS

Ms. Libette Plunkett, Project Manager HODA, BRAC Atlanta Field Office 1347 Thorne Avenue SW, Bldg 243 Fort McPherson, GA 30330

RE: Department Management Briefing for the St. Louis Army Ammunition Plant (SLAAP) Finding of Suitability for Early Transfer (FOSET)

Dear Ms. Plunkett:

I appreciate the Army responding to our request to brief our management on the early transfer of the SLAAP site. However, mid-January is a bit premature as I would prefer to have the complete and final version of the FOSET package reviewed by this office, and our Attorney General's office, prior to it being sent to the Governor. A briefing of department management following our review will provide them with all the information they may need to answer any questions or concerns the Governor may have upon receipt of the FOSET package. In addition to the FOSET package, and as discussed during the December 23, 2003, conference call, the department must have the Order with the City of St. Louis finalized and signed before the briefing and before you submit the FOSET package to the Governor.

As you may already be aware, the states' legislative session will begin in January. Due to the amount of activity associated with the legislative session, the Army should schedule the briefing at least 30 days in advance of a proposed meeting date. In order to make the briefing as productive as possible, the finalized FOSET package should be submitted to our office at least two weeks prior to briefing management so we have ample opportunity to review the material prior to the briefing. I believe providing the finalized FOSET package in advance of the briefing will help with the approval for the early transfer and increase our management's comfort level with the FOSET process. Given the Army's desire to expedite the transfer and the number of documents and issues to address, I suggest a minimum of weekly teleconferences between the project managers beginning the first week of January. This will allow us to discuss: the status of the FOSET package, transfer agreements, transfer schedule, orders, completion of the Site Specific Environmental Baseline Survey and the schedule for the management briefing.



Integrity and excellence in everything we do



Ms. Libette Plunkett	•			
December 31, 2003				
Page 2				
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If you have any questions regarding this lette				
me at (573) 526-2736. Direct written inquiri	es.or commer	its.to me.at	P.O. Bo	x 176,
Jefferson City, MO 65102-0176.				
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Sincerely,	•	•••	••	
HAZARDOUS WASTE PROGRAM		•		
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Relen Zaman for			• • •	
James R. Harris, Environmental Specialist III			•	
Department of Defense Unit	- «			

JH:dd

c: Mr. John German, AMC Office of Command Counsel
Mr. Tom Lorenz, US Environmental Protection Agency - Region VII
Major Arvesta Roberson, Army BRAC Office
Shelley A. Woods, Assistant Attorney General